BELDEN

# Product: 1855ENF

1855ENF - 75 Ohm SDI Coax, Mini RG-59, 22 AWG Str BC, 90% TC Braid + Foil, LSZH Jkt

## Product Description

75 Ohm SDI Coax, Mini RG-59, 22 AWG Stranded Bare Copper Conductor, PE Insulation, 90% Tinned Copper Braid + Foil Shield, LSZH Jacket, Dca.

## Technical Specifications

### Product Overview

| | |
|---|---|
| Suitable Applications: | Digital Video, 6 Gb/s UHDTV, HD-SDI 1080p; The cable is UV-resistant and suitable for indoor and outdoor use |

### Construction Details

| | |
|---|---|
| RG Type: | Mini 59 |

**Conductor**

| No. of Elements | Size | Stranding | Nom. Diameter | Material |
|---|---|---|---|---|
| 1 | 23 AWG | Stranded | 0.65 mm | BC - Bare Copper |

**Insulation**

| Element | Material | Nom. Insulation Diameter |
|---|---|---|
| Insulated Conductor | PE - Polyethylene (Foam) | 2.9 mm (0.11 in) |

**Outer Shield**

| Layer | Outer Shield Type | Material | Coverage |
|---|---|---|---|
| 1 | Tape | Tri-Laminate (Alum+Poly+Alum) | 100% |
| 2 | Braid | Tinned Copper (TC) | 90% |

**Outer Jacket**

| Material | Nom. Diameter |
|---|---|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 4.45 mm |

| | |
|---|---|
| Table Notes: | According to EN 50290-2-20 |

### Electrical Characteristics

**Return Loss (RL)**

| Frequency | Min. Return Loss |
|---|---|
| 5 - 1600 MHz | 23 dB |
| 1600 - 4500 MHz | 21 dB |

**Attenuation**

| Frequency | Nom. Attenuation |
|---|---|
| 1 MHz | 1.2 dB/100m |
| 3.6 MHz | 2.2 dB/100m |
| 5 MHz | 2.5 dB/100m |
| 6 MHz | 2.8 dB/100m |
| 7 MHz | 3.0 dB/100m |
| 10 MHz | 3.6 dB/100m |
| 12 MHz | 3.9 dB/100m |
| 25 MHz | 5.6 dB/100m |

| | |
|---|---|
| 67.5 MHz | 9.2 dB/100m |
| 71.5 MHz | 9.5 dB/100m |
| 88.5 MHz | 10.5 dB/100m |
| 100 MHz | 11.2 dB/100m |
| 135 MHz | 13.0 dB/100m |
| 143 MHz | 13.4 dB/100m |
| 180 MHz | 15.2 dB/100m |
| 270 MHz | 18.7 dB/100m |
| 360 MHz | 21.6 dB/100m |
| 540 MHz | 26.8 dB/100m |
| 720 MHz | 31.1 dB/100m |
| 750 MHz | 31.8 dB/100m |
| 1000 MHz | 37.1 dB/100m |
| 1500 MHz | 46.0 dB/100m |
| 2000 MHz | 53.9 dB/100m |
| 2250 MHz | 57.5 dB/100m |
| 2500 MHz | 61.0 dB/100m |
| 3000 MHz | 67.4 dB/100m |
| 4000 MHz | 79.2 dB/100m |
| 4500 MHz | 84.7 dB/100m |

**Electricals**

| Nom. Capacitance Cond-to-Shield | Nom. Characteristic Impedance | Nom. Velocity of Prop. |
|---|---|---|
| 53 pF/m (16 pF/ft) | 75 Ohm | 82% |

**Transfer Impedance**

| Frequency |
|---|
| 5-30 MHz |

**Screening**

| Frequency | Min. Screening Attenuation |
|---|---|
| 30 - 1000 MHz | 65 dB |
| 1000 - 2000 MHz | |
| 2000 - 3000 MHz | |
| 3000 - 4500 MHz | |

**Voltage**

| Voltage Rating |
|---|
| 75 V DC |

## Mechanical Characteristics

**Temperature**

| Operating | Installation | Storage |
|---|---|---|
| -30°C To +70°C | -5°C To +50°C | -30°C To +70°C |

| | |
|---|---|
| Max. Pull Tension: | 160 N (36 lbf) |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor/Outdoor - Euroclass Eca |
| Flammability / Reaction to Fire: | IEC 60332-1-2, CEI 20-35/1 |
| CPR Compliance: | CPR Euroclass: Eca |
| CENELEC Compliance: | EN 50117-1EN 50290-2-20 |
| European Halogen Free Standards: | IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3 |
| European Directive Compliance: | EU CE Mark |
| UK Regulation Compliance: | UKCA Mark |

## History

| | |
|---|---|
| Update and Revision: | Revision Number: 0.89 Revision Date: 08-21-2023 |

## Part Numbers

**Variants**

| Item # | Color | Putup Type | Length | EAN |
|---|---|---|---|---|
| 1855ENF.01305 | Black | Reel | 305 m | 8719605160263 |
| 1855ENF.01500 | Black | Reel | 500 m | 8719605154835 |
| 1855ENF.00500 | Green | Reel | 500 m | 8719605148247 |

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